



DEPARTMENT OF TRANSPORTATION
HAZARDOUS MATERIALS REGULATIONS BOARD
WASHINGTON, D.C. 20590

41744

[Docket No. HM-22; Amdts. Nos. 173-85;
178-84]

PART 173—SHIPPERS

PART 178—SHIPPING CONTAINER
SPECIFICATIONS

Cargo Tanks Matter Incorporated by
Reference; Correction

On September 30, 1974 (39 FR 35173), the Hazardous Materials Regulations Board published an amendment which updated the references to The Chlorine Institute's standards for valves on chlorine tank motor vehicles.

It has come to the Board's attention that parts of the September 30, 1974 amendment were ambiguous regarding whether cargo tanks manufactured before the effective date of the amendment are required to conform to the new Chlorine Institute specifications. The Board is now curing that defect and, concurrently, is restating the entire substance of the September 30 amendment in clearer terms.

In consideration of the foregoing, 49 CFR Parts 173 and 178 are amended as follows:

1. In § 173.33, paragraph (1) (4) is revised and paragraph (1) (5) is added to read as follows:

§ 173.33 Cargo tank use authorization.

(1)

(4) Angle valves and excess-flow valves on chlorine tank motor vehicles manufactured on or before December 31, 1974, must conform to the standards of The Chlorine Institute, Inc., as follows:

(i) An angle valve must conform to either Dwg. 104-4 dated May 5, 1958, or Dwg. 104-5, dated September 1, 1972.

(ii) An excess-flow valve conforming to either Dwg. 101-4 dated May 16, 1969, or Dwg. 101-6, dated September 1, 1973, must be installed under each liquid angle valve. An excess-flow valve conforming to either Dwg. 106-3, dated May 16, 1969, or Dwg. 106-5, dated September 1, 1973, must be installed under each gas angle valve.

(5) Angle valves and excess-flow valves on chlorine tank motor vehicles manufactured on or after January 1, 1975, must conform to the standards of The Chlorine Institute, Inc., as follows:

(i) An angle valve must conform to Dwg. 104-5, dated September 1, 1972:

(ii) An excess-flow valve conforming with Dwg. 101-6, dated September 1, 1973, must be installed under each liquid

angle valve. An excess-flow valve conforming to Dwg. 106-5, dated September 1, 1973, must be installed under each gas angle valve.

2. In § 173.315, paragraph (1) (14) is deleted and paragraph (1) (13) is revised to read as follows:

§ 173.315 Compressed gases in cargo tanks and portable tank containers.

(1)

(13) A safety relief valve on a chlorine tank motor vehicle must conform to one of the following standards of The Chlorine Institute, Inc.: Type 1½ JQ225, Dwg. H51970, dated October 7, 1968; or Type 1½ JQ225, Dwg. H50155, Revision A, dated April 28, 1969.

(14) [Deleted]

3. Section 178.337-1(c) (2) is revised to read as follows:

§ 178.337-1 General requirements.

(c)

(2) A chlorine tank shall have only one opening. That opening shall be in the top of the tank and shall be fitted with a nozzle that meets the following requirements:

(i) On a tank manufactured on or before December 31, 1974, the nozzle shall be protected by a dome cover plate which conforms to either the standard of The Chlorine Institute, Inc., Dwg. 103-3, dated January 23, 1958, or to the standard specified in paragraph (c) (2) (ii) of this section.

(ii) On a tank manufactured on or after January 1, 1975, the nozzle shall be protected by a manway cover which conforms to the standard of The Chlorine Institute, Inc., Dwg. 103-4, dated September 1, 1971.

4. Section 178.337-2(b) is revised as follows:

§ 178.337-2 Material.

(b) For a chlorine tank. Plates, the manway nozzle, and anchorage shall be made of carbon steel which meets the following requirements:

(1) For a tank manufactured on or before December 31, 1974—

(i) Material shall conform to ASTM Specification A-3000-58, titled "Steel Plates for Pressure Vessels for Service at Low Temperatures";

(ii) Material shall be Class 1, Grade A, flange or firebox quality;

(iii) Plate impact test specimens, as required under paragraph (a) of this section, shall be of the Charpy keyhole notch type; and

(iv) Plate impact test specimens shall meet the impact test requirements in paragraph (a) of this section in both the longitudinal and transverse directions of rolling at a temperature of minus 45.5 C. (-50° F.).

(2) For a tank manufactured on or after January 1, 1975—

(i) Material shall conform to ASTM Specification A-612-72a, Grade B or A-516-72, Grade 65 or 70;

(ii) Material shall meet the Charpy V-notch test requirements of ASTM Specification A-20-72a; and

(iii) Plate impact test specimens shall meet the impact test requirements in paragraph (a) of this section in both the longitudinal and transverse directions of rolling at a temperature of minus 40° C. (-40° F.).

5. Section 178.337-8(b) is revised as follows:

§ 178.337-8 Outlets.

(b) Chlorine tank valves. See § 173.33 (g) (9), (1) (4), and (5) of this subchapter. Regarding chlorine tank outlets, see also § 178.337-1(c) (2) of this part.

6. Section 178.337-10(c) is revised as follows:

§ 178.337-10 Protection of fittings.

(c) For chlorine tanks. There shall be a protective housing and manway cover to permit the use of standard emergency kits for controlling leaks in fittings on the dome cover plate. The housing and manway cover must conform to the Chlorine Institute's standards as follows:

(1) Tanks manufactured on or before December 31, 1974: Dwg. 137-1, dated November 7, 1962, or Dwg. 137-2, dated September 1, 1971.

(2) Tanks manufactured on or after January 1, 1975: Dwg. 137-2, dated September 1, 1971.

This amendment is effective January 1, 1975. However, compliance with the regulations as amended herein is authorized immediately.

(Transportation of Explosives Act (18 U.S.C. 831-835); sec. 6, Department of Transportation Act (49 U.S.C. 1655))

Issued in Washington, D.C., on November 25, 1974.

ROBERT A. KAYE,
Board Member for the
Federal Highway Administration.

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